Predoctoral Researcher at IMDEA Energy to work on Simulation of solar processes for green hydrogen production

The Institute IMDEA Energy is a Research Centre created by the Regional Government of “Comunidad de Madrid” to develop world-class R&D on clean and renewable energy. The ultimate goal of the Institute IMDEA Energy is to achieve outstanding scientific and technological contributions in the creation of a sustainable energy system. The aim of the Institute is to make a significant impact in all energy-related research topics by bringing together high quality researchers, providing them with excellent infrastructures and resources and promoting their close collaboration with the industrial sector.

The High Temperature Processes Unit of IMDEA Energy develops research on electricity generation, synthesis of chemical energy carriers by means of high-temperature processes, and industrial process heat, mainly by means of concentrated sunlight.

IMDEA Energy is opening a Predoctoral Researcher at IMDEA Energy to work on numerical simulation of solar processes and components for electricity generation and green hydrogen production.

Your Tasks:
- Process design and process simulation involving solar thermal technologies, high-temperature steam electrolyzers and thermal storage systems.
- Numerical investigation in advanced industrial processes for hydrogen productions.
- Extract useful engineering information from experimental datasets.
- Dissemination and publication of research results in scientific journals.

Your Qualification, Experience and Skill:
- BSc. or MSc. degree in Chemical Engineering, Mechanical Engineering, Material Sciences, Physical Sciences or equivalent.
- Experience in the use of engineering and scientific software (MATLAB, TRNSYS, EcoSimPro, EBSILON…) and programming languages (FORTRAN, C++...).
- Knowledge and/or familiarity with thermal and/or hydrogen-related technologies.
- Accredited oral and written communication skills in English.

Location: Móstoles, Madrid, Spain.
Remuneration: 19.000-21.000 anual gross salary
Duration: 1 year appointment with annual renewals depending on performance.

Reference: 20.30 AT7 PRE

For further information contact: Dr. José González, E-mail: jose.gonzalez@imdea.org

Applicants should send their Curriculum Vitae, covering letter and student records with the average marks obtained not later than the November 27, 2020 at 15:00 h to the following address:

email: jose.gonzalez@imdea.org
Subject: Reference 20.30.AT7PRE